

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **82302771.9**

(51) Int. Cl.³: **B 23 Q 17/16**

(22) Date of filing: **28.05.82**

(30) Priority: **09.06.81 US 272022**

(43) Date of publication of application:
05.01.83 Bulletin 83/1

(88) Date of deferred publication of search report: **10.08.83**

(84) Designated Contracting States:
CH DE FR GB LI SE

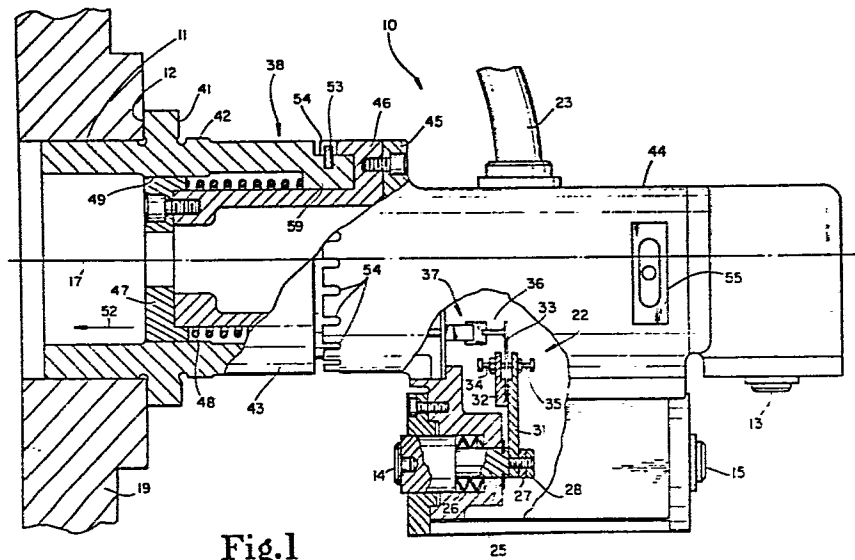
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(54) **Lathe tool calibrator and method.**

(57) A tool calibrator and method including a gauge head with a surface for chucking in a workpiece holder on a machine lathe. A plurality of contact surfaces on the gauge head function to contact the tool cutting edge when moved transverse to and parallel to the rotational axis of the workpiece holder. Electrical sensing circuitry detect resulting contacts and relay the same to the numerical control circuitry of the lathe for automatically determining relative position of the tool cutting edge. This input data is used to control movement of the tool in its tool holder after the gauge head has been removed and a workpiece mounted for the machining operation.





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 82302771.9												
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)												
A	<u>DE - A1 - 2 806 141</u> (SMT MACHINE CO. AB) * Totality * --	1,12	B 23 Q 17/16												
A	<u>US - A - 3 358 375</u> (LUTZ) * Column 2, line 26 - column 4, line 43; fig. 1,2,3,4,5,6 * --	1,12													
A,D	<u>US - A - 4 018 113</u> (BLAZENIN et al.) * Column 3, line 51 - column 4, line 9; fig. 1,2 * --	1,12,16													
A,D	<u>US - A - 3 641 849</u> (KINNEY) * Column 3, line 59 - column 4, line 52 * --	1,12	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)												
A,D	<u>US - A - 3 704 641</u> (RHOADES) * Column 3, line 41 - column 6, line 40; fig. 1,23 * ----	1,12	B 23 Q 15/00 B 23 Q 17/00 B 23 Q 21/00 B 23 B 3/00 B 23 B 25/00												
The present search report has been drawn up for all claims															
Place of search VIENNA		Date of completion of the search 26-05-1983	Examiner LEBZELTERN												
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or after the filing date</td></tr><tr><td>Y : particularly relevant if combined with another document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>& : member of the same patent family, corresponding document</td></tr><tr><td>P : intermediate document</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date	Y : particularly relevant if combined with another document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	& : member of the same patent family, corresponding document	P : intermediate document	
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